SONY

FM/AM Compact Disc Player

Operating Instructions EN

Owner's Record

The model and serial numbers are located on the bottom of the unit.
Record the serial number in the space provided below.
Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. CDX-C860 Serial No. _____

For installation and connections, see the supplied installation/connections manual.

COMPACT disc DIGITAL AUDIO

CDX-C860

© 1997 by Sony Corporation

Warning

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

— Reorient or relocate the receiving antenna.
— Increase the separation between the equipment and receiver.
— Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
— Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

CAUTION

The use of optical instruments with this product will increase eye hazard.

Welcome !

Thank you for purchasing the Sony Compact Disc Player. This unit lets you enjoy a variety of features by using either a supplied rotary remote or an optional wireless remote.

In addition to the CD playback and radio operations, you can expand your system by connecting an optional CD/MD changer. If you operate this unit or connect an optional CD changer with the CD-TEXT function, the CD-TEXT information will appear in the display when you play back a CD-TEXT disc*.

* *A CD-TEXT disc is an audio CD that includes information such as the disc name, artist name and track names.*
This information is recorded on the disc.

EN

Table of Contents

This Unit Only

Getting Started

Resetting the unit 4
Detaching the front panel 4
Preparing the rotary remote 4
Setting the clock 5

CD Player

Listening to a CD 5
Playing a CD in various modes 6
Creating a program
— CD Program Memory 7

Radio

Memorizing stations automatically
— Best Tuning Memory (BTM) 9
Memorizing only the desired stations 10
Receiving the memorized stations 10
Storing the station names
— Station Memo 11
Locating a station by name
— List-up 11

DSP

Selecting a surround menu 12
Registering a surround menu onto each disc
— Disc Sound Memory (DSM) 12
Selecting the listening position 13
Adjusting the fader (FAD) 13
Adjusting the volume of the subwoofer(s) 14
Adjusting the volume of the bass and treble
— Digital Tone Control 14
Listening to each program source in its registered surround mode
— Source Sound Memory (SSM) 15

Other Functions

Using the rotary remote 15
Adjusting the sound characteristics 17
Muting the sound 17
Changing the sound and display settings 17

With Optional Equipment

CD/MD Changer

Playing a CD or MD 18
Scanning the tracks
— Intro Scan 19
Playing tracks repeatedly
— Repeat Play 19
Playing tracks in random order
— Shuffle Play 19
Creating a program
— Program Memory 20
Labeling a CD
— Disc Memo 22
Locating a disc by name
— List-up 23
Selecting specific tracks for playback
— Bank 24

TV/Video

Watching the TV 25
Watching a video 25
Memorizing TV channels automatically 25
Memorizing only the desired TV channels 25
Storing the TV channel names 26
Displaying the information stored on discs .. 26
Watching the TV or video while listening to a CD or MD
— Simultaneous Play 27

Additional Information

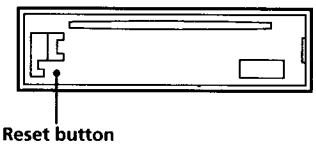
Precautions 27
Maintenance 28
Dismounting the unit 29
Location of controls 30
Specifications 32
Troubleshooting guide 33
Index 35

EN

Getting Started

Resetting the unit

Before operating the unit for the first time or after replacing the car battery, you must reset the unit.
Press the reset button with a pointed object, such as a ball-point pen.



Reset button

Notes

- *Pressing the reset button will erase the clock and some memorized functions.*
- *When you connect the power supply cord to the unit or reset the unit, wait for about 10 seconds before you insert a disc. If you insert a disc within these 10 seconds, the unit will not be reset, and you will have to press the reset button again.*

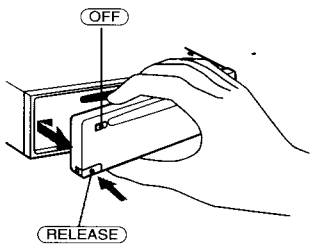
EN

Detaching the front panel

You can detach the front panel of this unit to prevent the unit from being stolen.

1 **Press (OFF).**

2 **Press (RELEASE) to open up the front panel. Then slide the front panel a little to the left, and pull it off towards you.**

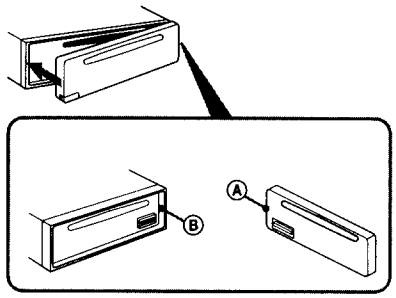


Notes

- *Be sure not to drop the panel when detaching it from the unit.*
- *If you press (RELEASE) to detach the panel while the unit is still on, the unit will turn off automatically to prevent the speakers from being damaged.*
- *When you carry the front panel with you, put it in the supplied front panel case.*

Attaching the front panel

Align part Ⓐ of the front panel to part Ⓑ of the unit as illustrated, and push until it clicks.



Notes

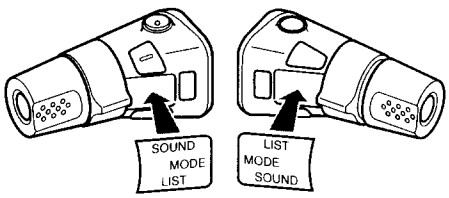
- *Be sure not to attach the front panel upside down.*
- *Do not press the front panel hard against the unit when attaching it. Press it lightly against the unit.*
- *Do not press hard or put excessive pressure on the display windows of the front panel.*
- *Do not expose the front panel to direct sunlight, heat sources such as hot air ducts, and do not leave it in a humid place. Never leave it on the dashboard of a car parked in direct sunlight where there may be a considerable rise in temperature.*

Caution alarm

If you turn the ignition key switch to the OFF position without removing the front panel, the caution alarm will beep for a few seconds (only when the POWER SELECT switch is set to the Ⓐ position).

Preparing the rotary remote

When you mount the rotary remote, attach the label in the illustration below.

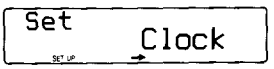


Setting the clock

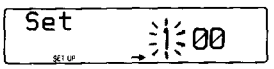
The clock uses a 12-hour digital indication.

Example: Set the clock to 10:08

1 Press (SHIFT), then press (2) (SET UP).

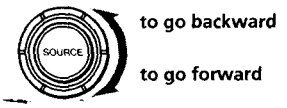


❶ Press (4) (→).

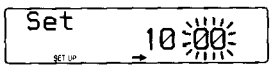


The hour digit flashes.

❷ Set the hour.

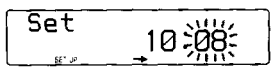


❸ Press (4) (→).

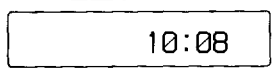


The minute digits flash.

❹ Set the minute.



2 Press (SHIFT).



The clock starts.

3 Press (SHIFT).

After the mode setting is complete, the display goes back to normal playback mode.

Note

If the POWER SELECT switch on the bottom of the unit is set to the ❽ position, turn the power on first, then set the clock.

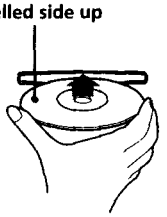
CD Player

Listening to a CD

Simply insert the CD.

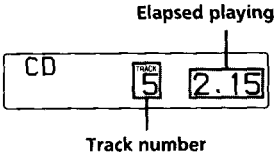
Playback starts automatically.

Labelled side up



If a CD is already inserted, press (SOURCE) repeatedly until "CD" appears.

Elapsed playing time



Track number

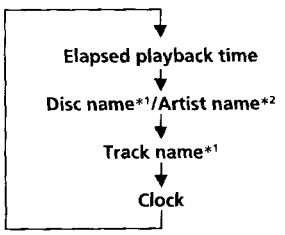
Note

To play back an 8 cm (3 in.) CD, use the optional Sony compact disc single adapter (CSA-8).

To	Press
Stop playback	⏏ or (OFF)
Eject the CD	⏏

Changing the displayed item

Each time you press (DSPL), the item changes as follows:



*1 *If you inserted a non-CD-TEXT disc, "NO D.Name" or "NO T.Name" appears in the display.*

*2 *If you play a CD-TEXT disc, the artist name appears in the display after the disc name. (Only for CD-TEXT discs with the artist name.)*

Tip

If the name of the CD-TEXT disc is too long, you can scroll it across the display by pressing (SHIFT), then (1) (←).

Automatically scrolling a disc name — Auto Scroll

If the disc name/artist name or track name on a CD-TEXT disc exceeds 10 characters and the Auto Scroll function is on, automatically scrolls on the display as follows:

- *The disc name appears when the disc has changed (if the disc name is selected).*
- *The track name appears when the track has changed (if the track name is selected).*
- *The disc or track name appears depending on the setting when you press (SOURCE) to select a CD-TEXT disc.*

If you press (DSPL) to change the display item, the disc or track name of the CD-TEXT disc is scrolled automatically whether you set the function on or off.

1 During playback, press (SHIFT).

2 Press (2) (SET UP) repeatedly until "A.Scrl" appears.

EN

3 Press (4) (→) to select "A.Scrl on."

4 Press (SHIFT).

To cancel Auto Scroll, select "A.Scrl off" in step 2 above.

Note

For some CD-TEXT discs with extremely many characters, the following cases may happen:
— Some of the characters are not displayed.
— Auto Scroll does not work.

Locating a specific track — Automatic Music Sensor (AMS)

During playback, press either side of (SEEK/AMS) momentarily.

To locate succeeding tracks

To locate preceding tracks

Locating a specific point in a track — Manual Search

During playback, press and hold either side of (SEEK/AMS). Release the button when you have found the desired point.

To search forward

To search backward

Note

If "└└└└" or "┐┐┐┐" appears in the display, that means you have reached the beginning or the end of the disc and you cannot go any further.

Playing a CD in various modes

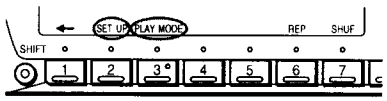
You can play CDs in various modes:

- Intro (Intro Scan) lets you play the first 10 seconds of all the tracks.
- Repeat (Repeat Play) repeats the current track.
- Shuf (Shuffle Play) plays all the tracks in random order.

Searching for the desired track — Intro scan

1 Press (SHIFT).

Every time you press (SHIFT), only the items you can select light up.

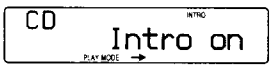


2 Press (3) (PLAY MODE) repeatedly until "Intro" appears.

Each time you press (3) (PLAY MODE), the item changes as follows:

Intro → PGM → DSM set

3 Press (4) (→) to select "Intro on."



Intro Scan starts.

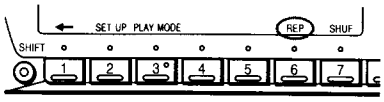
4 Press (SHIFT).

To go back to normal playback mode, select "Intro off" in step 3 above.

Playing tracks repeatedly
— Repeat Play

1 During playback, press (SHIFT).

2 Press (6) (REP) repeatedly until "Repeat 1" appears.



Repeat Play starts.

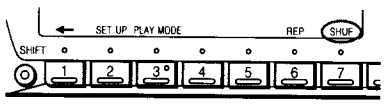
3 Press (SHIFT).

To go back to normal playback mode, select "Repeat off" in step 2 above.

Playing tracks in random order
— Shuffle Play

1 During playback, press (SHIFT).

2 Press (7) (SHUF) repeatedly until "Shuf 1" appears.



Shuffle Play starts.

3 Press (SHIFT).

To go back to normal playback mode, select "Shuf off" in step 2 above.

Creating a program
— CD Program Memory

You can play the tracks in the order you want by making your own program. You can make two programs: Program 1 and Program 2. You can select up to 12 tracks for each program. You can store the programs in memory.

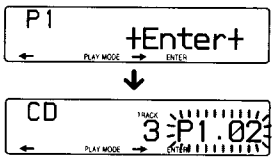
1 Press (SHIFT), then press (3) (PLAY MODE) for two seconds.

"P 1" shows Program 1 is selected.

To select Program 2, press (4) (→) repeatedly until "P 2" appears.

2 Press either side of (SEEK/AMS) to select the track you want.

3 Press (5) (ENTER) momentarily.



4 To continue entering tracks, repeat steps 2 and 3.

5 When you finish selecting tracks, press (3) (PLAY MODE) for two seconds.

6 Press (SHIFT).

Notes

- *"*Wait*" appears in the display while the unit is reading the data.*
- *"*Mem Full*" appears in the display when you try to enter more than 12 tracks into a program.*

Playing the stored program

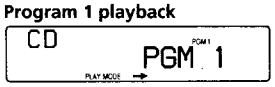
You can select:
- PGM 1 to play Program 1.
- PGM 2 to play Program 2.
- PGM 1+2 to play Programs 1 and 2.

1 **Press (SHIFT).**

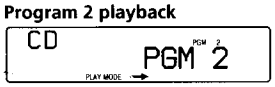
2 **Press (3) (PLAY MODE) repeatedly until "PGM" appears.**

3 **Press (4) (→) repeatedly until the desired program appears.**

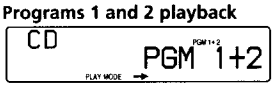
Program 1 playback



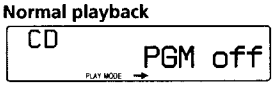
Program 2 playback



Programs 1 and 2 playback



Normal playback



Program Play starts.

4 **Press (SHIFT).**

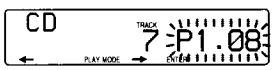
To go back to normal playback mode, select "PGM off" in step 3 above.

Note

"NO Data" appears in the display if no track is stored in the program.

Erasing an entire program

1 **Press (SHIFT), then press (3) (PLAY MODE) for two seconds.**

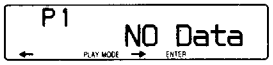


"P 1" shows Program 1 is selected.

2 **Press (1) (←) repeatedly until "DEL" appears.**

To delete Program 2, press (4) (→) repeatedly until "PGM 2" appears.

3 **Press (5) (ENTER) for two seconds.**



The entire program is erased.

4 **When you finish erasing programs, press (3) (PLAY MODE) for two seconds.**

5 **Press (SHIFT).**

Adding tracks to a program

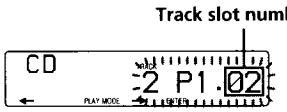
1 **Press (SHIFT), then press (3) (PLAY MODE) for two seconds.**

"P 1 " shows Program 1 is selected.

To select Program 2, press (4) (→) repeatedly until "P 2" appears.

2 **Press (1) (←) or (4) (→) to select the track slot number where you want to insert a track.**

Track slot number



3 **Press either side of (SEEK/AMS) to select the track you want to insert.**

4 **Press (5) (ENTER) momentarily to enter the track.**

The current track in that slot number and the succeeding tracks shift down.

5 **To continue inserting tracks, repeat steps 2 through 4.**

Note

*Once all 12 slots have been filled, "*Mem Full*" appears in the display, and you cannot insert tracks.*

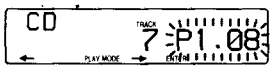
6 **When you finish inserting tracks, press (3) (PLAY MODE) for two seconds.**

7 **Press (SHIFT).**

EN

Erasing tracks in a program

1 Press (SHIFT), then press ③ (PLAY MODE) for two seconds.

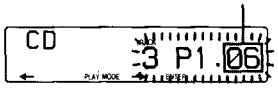


"P 1" shows Program 1 is selected.

To select Program 2, press ④ (→) repeatedly until "P 2" appears.

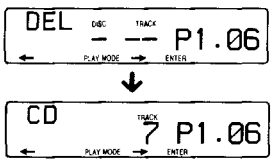
2 Press ① (←) or ④ (→) to select the track you want to erase.

Track slot number



The track currently registered in slot 6 of Program 1.

3 Press ⑤ (ENTER) for two seconds.
When you erase a track from a slot number, the succeeding tracks shift up to fill the gap.



4 To continue erasing tracks, repeat steps 2 and 3.

5 When you finish erasing tracks, press ③ (PLAY MODE) for two seconds.

6 Press (SHIFT).

Radio

Memorizing stations automatically

— Best Tuning Memory (BTM)

The unit selects the stations with the strongest signals and memorizes them in the order of their frequencies. You can store up to 10 stations on each band (FM1, FM2 and AM).

Caution
When tuning in stations while driving, use Best Tuning Memory to prevent accidents.

1 Press (SOURCE) repeatedly to select the tuner.
Each time you press (SOURCE), the source changes as follows:

CD ⟷ TUNER

2 Press (MODE) repeatedly to select the band.
Each time you press (MODE), the band changes as follows:

→ FM1 → FM2 → AM

3 Press (SHIFT), then press ③ (PLAY MODE) repeatedly until "B.T.M" appears.

4 Press ④ (→).
The unit stores stations in the order of their frequencies on the number buttons.
A beep sound and the setting is stored.

5 Press (SHIFT).

Notes

- *The unit does not store stations with weak signals. If only a few stations are received, some number buttons will retain heir former setting.*
- *When a number is indicated in the display, the unit starts storing stations from the one currently displayed.*

Memorizing only the desired stations

You can store up to 10 stations on each band (20 for FM1 and FM2, 10 for AM) in the order of your choice.

1 Press (SOURCE) repeatedly to select the tuner.

2 Press (MODE) repeatedly to select the band (FM1, FM2 or AM).

3 Press either side of (SEEK/AMS) to tune in the station you want to store on the number button.

4 Keep the desired number button (1) to (10) pressed for two seconds until "MEM" appears.
The number button indication appears in the display.

Note
If you try to store another station on the same number button, the previously stored station will be erased.

EN

Receiving the memorized stations

1 Press (SOURCE) repeatedly to select the tuner.

2 Press (MODE) repeatedly to select the band (FM1, FM2 or AM).

3 Press the number button (1) to (10) momentarily where the desired station is stored.

If you cannot tune in a preset station

Press either side of (SEEK/AMS) momentarily to search for the station (automatic tuning).
Scanning stops when the unit receives a station. Press either side of (SEEK/AMS) repeatedly until the desired station is received.

Note
If the automatic tuning stops too frequently, press (SHIFT), then press (3) (PLAY MODE) repeatedly until "Local" (local seek mode) is displayed. Then press (4) (→) to select "Local on." Press (SHIFT).
Only the stations with relatively strong signals will be tuned in.

Tip
If you know the frequency of the station you want to listen to, press and hold either side of (SEEK/AMS) for two seconds until the desired frequency appears (manual tuning).

If FM stereo reception is poor — Monaural Mode

1 Press (SHIFT), then press (3) (PLAY MODE) repeatedly until "Mono" appears.

2 Press (4) (→) repeatedly until "Mono on" appears.
The sound improves, but becomes monaural ("ST" disappears).

3 Press (SHIFT).

To go back to normal mode, select "Mono off" in step 2 above.

Changing the displayed items

Each time you press (DSPL), the item changes as follows:

Frequency ↔ Clock

Storing the station names

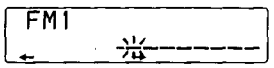
—Station Memo

You can assign a name to each radio station and store it in memory. The name of the current station appears in the display. You can store up to eight characters for each station.

Storing the station names

1 Tune in a station whose name you want to store.

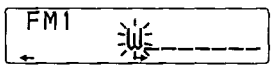
2 Press (LIST) for two seconds.



3 Enter the characters.

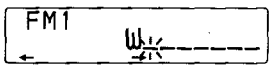
❶ Rotate the dial clockwise to select the desired characters.

(A → B → C → ··· Z → 0 → 1 → 2 → ··· 9 → + → − → * → / → \ → > → < → . → _)



If you rotate the dial counterclockwise, the characters appear in the reverse order.
If you want to put a blank space between characters, select "_" (under-bar).

❷ Press (4) (→) after locating the desired character.
The flashing cursor moves to the next space.



If you press (1) (←), the flashing cursor moves to the left.

❸ Repeat steps ❶ and ❷ to enter the entire name.

4 To return to normal radio reception, press (LIST) for two seconds.

Tip

To erase/correct a name, enter "_" (under-bar) for each character.

Displaying the station name

Press (DSPL) during radio reception.

Each time you press (DSPL), the item changes as follows:

→ Station name* → Frequency → Clock →

** If the station name is not stored, "NO Name" appears in the display for one second.*

Erasing the station name

1 Tune in any station and press (LIST) for two seconds.

2 Press (DSPL) for two seconds.
"Delete" and the station name appear in the display.

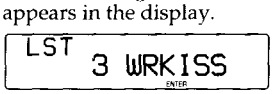
3 Rotate the dial to select the name you want to erase.

4 Press (5) (ENTER) for two seconds.
The name is erased.
Repeat steps 3 and 4 if you want to erase other names.

5 Press (LIST) for two seconds.
The unit returns to normal radio reception mode.

Locating a station by name — List-up

1 Press (LIST) momentarily.
The name assigned to the current station appears in the display.



2 Press (LIST) repeatedly until you find the desired station.

3 Press (5) (ENTER) to tune in the desired station.

Note

After the station name or frequency has been displayed for five seconds, the display goes back to normal mode. To turn off the display, press (DSPL).

DSP

Selecting a surround menu

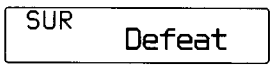
You can select a surround mode to best fit the audio source. The following modes can simulate different sound fields and enhance the sound so you feel as if you are at a live performance.

Surround menu

Defeat	Normal sound without any surround effects
Stadium	Open-air concert in a stadium
Disco	Disco with thick walls
Theater	Movie theater
Church	Church/chapel with a lot of reverberation
Hall	Concert hall
Studio	Recording studio

1 Press (SOURCE) to select a source (tuner, CD or MD).

2 Press (SOUND) repeatedly until "SUR" appears.



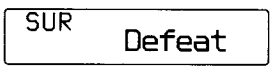
3 Rotate the dial to select the desired surround menu.
The surround menu appear in the order shown above.

After three seconds, the display goes back to normal playback mode.

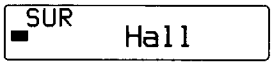
Adjusting the effect level

1 Press (SOURCE) to select a source (tuner, CD or MD).

2 Press (SOUND) repeatedly until "SUR" appears.

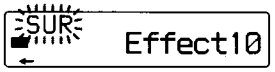


3 Rotate the dial until the desired surround menu appears.



4 Press (SOUND) for two seconds.

5 Rotate the dial to adjust the level.
You can adjust the level from 0 to 10. Increase the level to enhance the effect.



6 Press (SOUND) for two seconds.

Registering a surround menu onto each disc

— Disc Sound Memory (DSM) (CD/MD changer with the program memory function)

Once you have registered the desired surround menu and the sound characteristics (bass, treble and subwoofer) onto a disc, you can enjoy the same surround menu every time you play that disc. You can register them of a maximum of 126 discs.

1 Press (SHIFT), then press (3) (PLAY MODE) repeatedly until "DSM set" appears.

2 Press (5) (ENTER).
After the DSM setting is complete, the display goes back to normal playback mode.

3 Press (SHIFT).

Changing the stored surround effect

Play the disc whose surround mode you wish to change, and follow the procedure in "Registering a surround menu onto each disc."

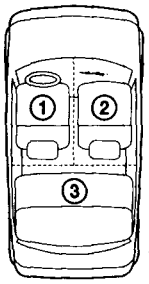
EN

Erasing the stored surround effect

Press ⑤ (ENTER) for two seconds in step 2 of "Registering a surround menu onto each disc."

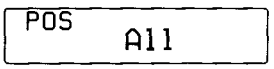
Selecting the listening position

You can set the time for the sound to reach the listeners from the speakers.
The unit can to simulate a natural sound field so that you can feel as if you are is in the centre of the sound field wherever you sit in the car.



Display window	Center of sound field
All	Normal setting (① + ② + ③)
Front	Front part (① + ②)
Front-R	Right front (②)
Front-L	Left front (①)
Rear	Rear part (③)

1 Press SOUND momentarily until "POS" appears.



2 Rotate the dial to select the desired listening position.
The listening positions appear in the order shown in the table.

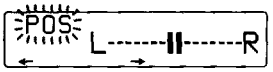
After three seconds, the display goes back to normal playback mode.

Adjusting the listening position

1 Press SOUND repeatedly until "POS" appears.

2 Rotate the dial to select the desired listening position.

3 Press SOUND for two seconds.

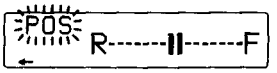


4 Rotate the dial to adjust the center of the sound field to the left or right. Then set the center of the sound field.

Center moves to the L (left).

Center moves to the R (right).

5 Press ④ (→).



To go back to the listening position, press ① (←).

6 Rotate the dial to adjust the center of the sound field to the front or rear.

Center moves to the R (rear).

Center moves to the F (front).

7 Press SOUND for two seconds.
When the effect setting is complete, normal mode display appears.

Adjusting the fader (FAD)

Normally, with the DSP mode on, the volume of the output sound from the rear speakers is lowered automatically to improve the efficiency of the listening position setting. If you want to raise the rear speaker volume, adjust the fader.

1 Follow steps 1 through 3 of "Selecting a surround menu" (page 12).

2 Press SOUND repeatedly until "FAD" appears.

3 Rotate the dial to adjust the fader.

Decreases front speaker volume

Increases front speaker volume

After three seconds, the display goes back to normal playback mode.

EN
DSP

Adjusting the volume of the subwoofer(s)

1 Press (SOURCE) to select a source (tuner, CD or MD).

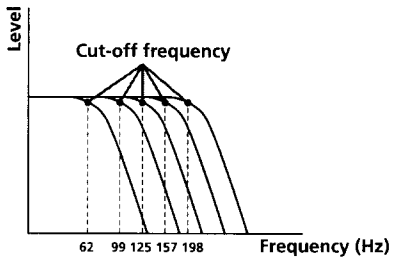
2 Press (SOUND) repeatedly until "SUB" appears.

3 Rotate the dial to adjust the volume.
After three seconds, the display goes back to the normal playback mode.

Tip
When you rotate the dial to turn the volume all the way down, "Sub mute" appears and the cutout frequency of the subwoofer is disabled.

Adjusting the frequency of the subwoofer(s)

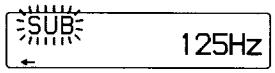
To match the characteristics of the connected subwoofer(s), you can cut out the unwanted high and middle frequency signals entering the subwoofer(s). By setting the cut-off frequency (see the diagram below), the subwoofer(s) will output only low frequency signals so you can get a clearer sound image.



1 Press (SOURCE) to select a source (tuner, CD or MD).

2 Press (SOUND) repeatedly until "SUB" appears.

3 Press (SOUND) for two seconds.



4 Rotate the dial to select the desired cut-off frequency.

62 Hz → 99 Hz → 125 Hz* → 157 Hz → 198 Hz

** Factory-set frequency*

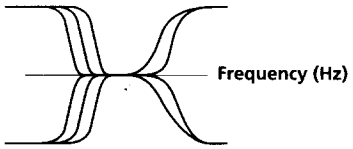
5 Press (SOUND) for two seconds.

To adjust the volume of the subwoofer, press (1) (←).

Adjusting the volume of the bass and treble

— Digital Tone Control

The CDX-C860 has a built-in DSP IC that uses digital processing to create clearer adjustments to the bass and treble volume than analog circuits.
The sharper tone slopes used in this unit produce more obvious and effective tone responses. For example, you can enhance the background music with the bass volume and effectively isolate the main vocals.



1 Press (SOURCE) to select a source (tuner, CD or MD).

2 Press (SOUND) repeatedly until "BAS" or "TRE" appears.

3 Rotate the dial to adjust the volume.
After three seconds, the display goes back to normal playback mode.

Adjusting the turn-over frequency

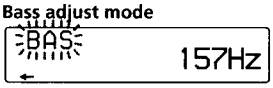
You can adjust the bass and treble turn-over frequencies.

1 Press (SOURCE) to select a source (tuner, CD or MD).

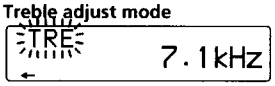
2 Press (SOUND) repeatedly until "BAS" or "TRE" appears.

3 Press (SOUND) for two seconds.

Bass adjust mode



Treble adjust mode



EN

4 Rotate the dial to select the turn-over frequency.
The turn-over frequencies change as follows:

Bass:
125 Hz → 157 Hz* → 198 Hz

Treble:
5.0 kHz → 7.1 kHz*

** Factory-set frequency*

5 Press (SOUND) for two seconds.

To adjust the volume of the bass and treble, press (1) (←).

Listening to each program source in its registered surround mode

— Source Sound Memory (SSM)

You can listen to the same source always in the surround menu and the sound characteristics (bass, treble and subwoofer) even after changing the program source or turning the unit on and off again.

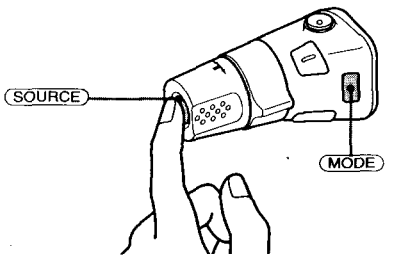
Note
If an optional TV tuner is connected, "LSM" (Last Sound Memory) appears on the TV display.

Other Functions

Using the rotary remote

The rotary remote works by pressing buttons and/or rotating controls.
You can control an optional CD or MD changer with the rotary remote.

By pressing buttons (the SOURCE and MODE buttons)



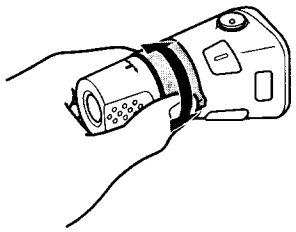
Each time you press (SOURCE), the source changes as follows:
TUNER → CD → MD → TV*

** When an optional TV tuner or Video is connected.*

Pressing (MODE) changes the operation in the following ways;
- **Tuner: FM1 → FM2 → AM**
- **CD changer: CD1 → CD2 → ...**
- **MD changer: MD1 → MD2 → ...**
- **TV/Video: TV → Video1 → Video2 → ...**

Tip
When the POWER SELECT switch is set to position B, you can turn on this unit by pressing (SOURCE) on the rotary remote.

By rotating the control (the SEEK/ AMS control)

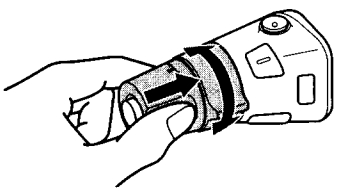


Rotate the control momentarily and release it to:

- Locate a specific track on a disc. Rotate and hold the control until you locate the specific point in a track, then release it to start playback.
- Tune in stations automatically. Rotate and hold the control to tune in a specific station.

EN

By pushing in and rotating the control (the PRESET/DISC control)



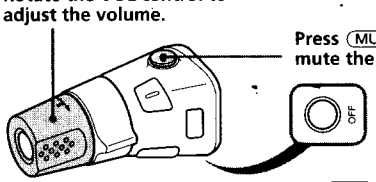
Push in and rotate the control to:

- Receive the stations memorized on the number buttons.
- Change the disc.

Other operations

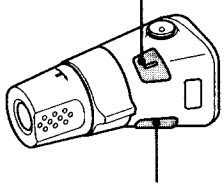
Rotate the VOL control to adjust the volume.

Press (MUTE) to mute the sound.



Press (OFF) to turn off the unit.

Press (SOUND) to adjust the volume and sound menu.

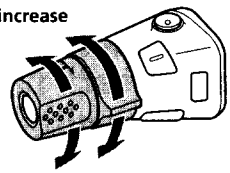


Press (LIST) to display memorized names.

Changing the operative direction

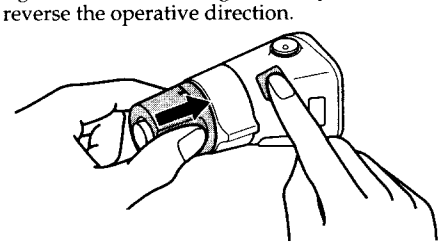
The operative direction of controls is factory-set as in the illustration below.

To increase



To decrease

If you need to mount the rotary remote on the right side of the steering column, you can reverse the operative direction.



Press (SOUND) for two seconds while pushing the VOL control.

Tip

You can control the operative direction of controls with the unit (page 17).

Adjusting the sound characteristics

You can adjust the bass, treble, balance and fader.
Each source can store the bass and treble levels respectively.

1 Select the item you want to adjust by pressing (SOUND) repeatedly.

VOL (volume) → SUR (surround menu) → POS (listening position) → SUB (subwoofer volume) → BAS (bass) → TRE (treble) → BAL (balance) → FAD (fader)

2 Adjust the selected item by rotating the dial.
Adjust within three seconds after selecting the item. (After three seconds, the dial functions work as the volume control.)

Muting the sound

Press (MUTE) on the rotary remote or wireless remote.
"Mute on" flashes momentarily.

To restore the previous volume level, press (MUTE) again.

Tip
The unit decreases the volume automatically when a telephone call comes in (Telephone mute function).

Changing the sound and display settings

You can set:
- Clock (page 5).
- D.Info (Dual Information) to display the clock and the play mode at the same time (ON) or to display the information alternately (OFF).
- Amber/Green to change the illumination color to amber or green.
- Dimmer to change the brightness of the display.
  — Select "Auto" to dim the display only when you turn the lights on.
  — Select "on" to dim the display.
- Contrast to adjust the contrast if the indications in the display are not recognizable because of the unit's installed position.
- Beep to turn on or off the beeps.
- RM (Rotary Remote) to change the operative direction of the controls of the rotary remote.
  — Select "norm" to use the rotary remote in the factory-set position.
  — Select "rev" when you mount the rotary remote on the right side of the steering column.
- Loud (Loudness) to enjoy bass and treble even at low volume. The bass and treble will be reinforced.
- A.Scrl (Auto Scroll) (page 6, 18).
- Disc MEMO/TEXT name (Disc memo/CD-TEXT name) to set the priority display item when you connect an optional CD changer with the CD-TEXT and disc memo function (page 22).

1 Press (SHIFT).

2 Press (2) (SET UP) repeatedly until the desired item appears.

Each time you press (2) (SET UP), the item changes as follows:

Clock → D.Info* → Amber/Green → Dimmer → Contrast → Beep → RM → Loud* → A.Scrl* → Disc MEMO/TEXT name*

** When you have not tune the station or there is no CD/MD being played, these items will not appear.*

Note
The displayed item will differ depending on the source.

3 Press (4) (→) to select the desired setting (for example: on or off).
For the "Contrast" setting, pressing (4) (→) makes the contrast higher, and pressing (1) (←) makes the contrast lower.

4 Press (SHIFT).
After the mode setting is complete, the display goes back to normal playback mode.

With Optional Equipment

CD/MD Changer

You can control up to 7 CD and MD changers with this unit.
If you connect an optional CD changer with the CD-TEXT function, the CD-TEXT information will appear in the display when you play back a CD-TEXT disc.

Playing a CD or MD

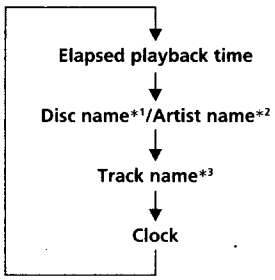
1 Press (SOURCE) repeatedly to select the CD or MD.

2 Press (MODE) until the desired changer appears.
CD/MD playback starts.

When a CD or MD changer is connected, all the tracks play from the beginning.

Changing the displayed item

Each time you press (DSPL) during CD, CD-TEXT disc or MD playback, the item changes as follows:



*1 *If you have not labeled the disc or there is no disc name prerecorded on the MD, "NO D.Name" appears in the display.*
*2 *If you play a CD-TEXT disc, the artist name appears in the display after the disc name. (Only for CD-TEXT discs with the artist name)*
*3 *If the track name of a CD-TEXT disc or MD is not prerecorded, "NO T.Name" appears in the display.*

You can label a personalized name for CDs and CD-TEXT discs with the disc memo function, refer to "Labeling a CD" (page 22).

Tip
If the name of the MD or CD-TEXT disc is too long, you can scroll it across the display by pressing (SHIFT), then (1) (←).

Automatically scrolling a disc name — Auto Scroll

If the disc name/artist name or track name on a CD-TEXT disc or MD exceeds 10 characters and the Auto Scroll function is on, automatically scrolls on the display as follows:
- *The disc name appears when the disc has changed (if the disc name is selected).*
- *The track name appears when the track has changed (if the track name is selected).*
- *The disc or track name appears depending on the setting when you press (SOURCE) to select an MD or CD-TEXT disc.*

If you press (DSPL) to change the display item, the disc or track name of the MD or CD-TEXT disc is scrolled automatically whether you set the function on or off.

1 During playback, press (SHIFT).

2 Press (2) (SET UP) repeatedly until "A.Scrl" appears.

3 Press (4) (→) to select "A.Scrl on."

4 Press (SHIFT).

To cancel Auto Scroll, select "A.Scrl off" in step 2 above.

Note
For some CD-TEXT discs with extremely many characters, the following cases may happen:
— Some of the characters are not displayed.
— Auto Scroll does not work.

Displaying the recording date of the current MD

Press (DSPL) for two seconds during MD playback.
The recording date of the track is displayed for about three seconds.

Locating a specific track — Automatic Music Sensor (AMS)

During playback, press either side of (SEEK/AMS) once for each track you want to skip.

To locate succeeding tracks

To locate preceding tracks

Locating a specific point in a track — Manual Search

During playback, press and hold either side of (SEEK/AMS). Release the button when you have found the desired point.

To search forward

To search backward

Locating a disc by disc number — Direct Disc Selection

Press the number button that corresponds with the desired disc number.
The desired disc in the current changer begins playback.

Scanning the tracks

— Intro Scan

You can play the first 10 seconds of all the tracks on the current disc.

1 During playback, press (SHIFT), then press ③ (PLAY MODE) repeatedly until "Intro" appears.

2 Press ④ (→) to select "Intro on."
Intro Scan starts.

3 Press (SHIFT).

To go back to normal playback mode, select "Intro off" in step 2 above.

Playing tracks repeatedly

— Repeat Play

You can select:
- Repeat 1 to repeat a track.
- Repeat 2 to repeat a disc.
- Repeat 3 to repeat all the discs in the current changer.

1 During playback, press (SHIFT).

2 Press ⑥ (REP) repeatedly until the desired setting appears.

Repeat 1 → Repeat 2 → Repeat 3 → Repeat off → (back to Repeat 1)

Repeat Play starts.

3 Press (SHIFT).

To go back to normal playback mode, select "Repeat off" in step 2 above.

Note
When you play back a CD on this unit, Repeat 3 has the same function as Repeat 2.

Playing tracks in random order — Shuffle Play

You can select:
- Shuf 1 to play the tracks on the current disc in random order.
- Shuf 2 to play the tracks in the current changer in random order.
- Shuf 3 to play all the tracks in random order.

1 During playback, press (SHIFT).

2 Press ⑦ (SHUF) repeatedly until the desired setting appears.

Shuf 1 → Shuf 2 → Shuf 3 → Shuf off → (back to Shuf 1)

Shuffle Play starts.

3 Press (SHIFT).

To go back to normal playback mode, select "Shuf off" in step 2 above.

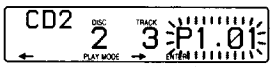
Creating a program

— Program Memory (CD/MD changer with the program memory function)

You can play tracks in the order you want by making your own program. You can make two programs: Program 1 and Program 2. You can select up to 12 tracks for each program. You can store the programs in memory.

1 Press (SHIFT), then press (3) (PLAY MODE) for two seconds.

Program edit mode



"P 1" shows Program 1 is selected.

If you have labelled the disc, the bank edit mode appears. Press (3) (PLAY MODE) to display "P 1" above.

To select Program 2, press (4) (→) repeatedly until "P 2" appears.

2 Select the track you want.

❶ Press (SOURCE) repeatedly to select CD or MD.

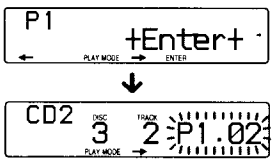
❷ Press (MODE) repeatedly to select the changer.

❸ Press (SHIFT), then press the number button to select the disc.

❹ Press (SHIFT).

❺ Press either side of (SEEK/AMS) to select the track.

3 Press (5) (ENTER) momentarily.



4 To continue entering tracks, repeat steps 2 and 3.

5 When you finish entering tracks, press (3) (PLAY MODE) for two seconds.

6 Press (SHIFT).

Notes

- *"*Wait*" appears in the display while the unit is reading the data, or when a disc has not been put into the unit.*
- *"*Mem Full*" appears in the display when you try to enter more than 12 tracks into a program.*

Playing the stored program

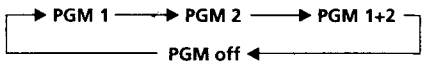
Changing the disc order in the changer will not affect program memory play.

You can select:
- PGM 1 to play Program 1.
- PGM 2 to play Program 2.
- PGM 1+2 to play Programs 1 and 2.

1 Press (SHIFT).

2 Press (3) (PLAY MODE) repeatedly until "PGM" appears.

3 Press (4) (→) repeatedly until the desired program appears.



Program Play starts.

4 Press (SHIFT).

To go back to normal playback mode, select "PGM off" in step 3 above.

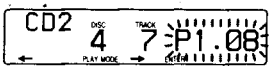
Notes

- *If you press the number button during program memory play, program memory play is interrupted, and playback of the selected disc starts.*
- *"NO Data" appears in the display if no track is stored in the program.*
- *If a track stored into the program memory is not in the disc magazine, the track will be skipped.*
- *When the disc magazine contains no tracks stored into the program memory, or when the program information has not been loaded yet, "Not Ready" appears.*

EN

Erasing an entire program

1 Press (SHIFT), then press ③ (PLAY MODE) for two seconds.



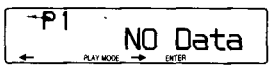
"P 1" shows Program 1 is selected.

If you have labelled the disc, the bank edit mode appears. Press ③ (PLAY MODE) to display "P 1" above.

2 Press ① (←) repeatedly until "DEL" appears.

To erase Program 2, press ④ (→) repeatedly until "PGM 2" appears.

3 Press ⑤ (ENTER) for two seconds.



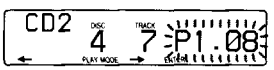
The entire program is erased.

4 When you finish erasing programs, press ③ (PLAY MODE) for two seconds.

5 Press (SHIFT).

Adding tracks to a program

1 Press (SHIFT), then press ③ (PLAY MODE) for two seconds.



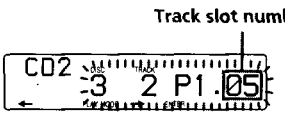
"P 1" shows Program 1 is selected.

If you have labelled the disc, the bank edit mode appears. Press ③ (PLAY MODE) to display "P 1" above.

To select Program 2, press ④ (→) repeatedly until "P 2" appears.

2 Press ① (←) or ④ (→) to select the track slot number where you want to insert a track.

Track slot number



3 Press either side of (SEEK/AMS) to select the track you want to insert.

4 Press ⑤ (ENTER) momentarily to enter the track.
The current track in that slot number and the succeeding tracks shift down.
To continue inserting tracks, repeat steps 2 through 4.

Note
*Once all 12 slots have been filled, "*Mem Full*" appears in the display, and you cannot insert tracks.*

5 When you finish inserting tracks, press ③ (PLAY MODE) for two seconds.

6 Press (SHIFT).

Erasing tracks in a program

1 Press (SHIFT), then press ③ (PLAY MODE) for two seconds.

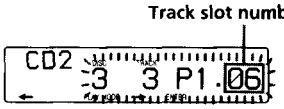
"P 1" shows Program 1 is selected.

If you have labelled the disc, the bank edit mode appears. Press ③ (PLAY MODE) to display "P 1" above.

To select Program 2, press ④ (→) repeatedly until "P 2" appears.

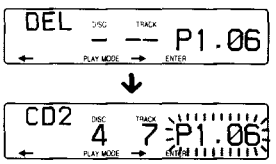
2 Press ① (←) or ④ (→) to select the track you want to erase.

Track slot number



The track currently registered in slot 6 of Program 1.

3 Press ⑤ (ENTER) for two seconds.
When you erase a track from a slot number, the succeeding tracks shift up to fill the gap.



4 To continue erasing tracks, repeat steps 2 and 3.

5 When you finish erasing tracks, press ③ (PLAY MODE) for two seconds.

6 Press (SHIFT).

EN

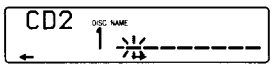
CD/MD Changer

Labeling a CD — Disc Memo

(CD changer with the custom file function)

You can label each disc with a personalized name. You can enter up to eight characters for a disc. If you label a CD, you can locate the disc by name (page 23) and select the specific tracks for playback (page 24).

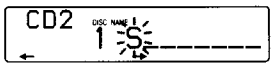
1 Play the CD and press (LIST) for two seconds.



2 Enter the characters.

❶ Rotate the dial clockwise to select the desired characters.

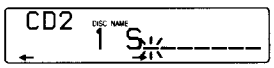
(A → B → C → ··· Z → 0 → 1 → 2 → ··· 9 → + → − → * → / → \ → > → < → . → _)



If you rotate the dial counterclockwise, the characters appear in the reverse order.
If you want to put a blank space between characters, select "_" (under-bar).

❷ Press (4) (→) after locating the desired character.

The flashing cursor moves to the next space.



If you press (1) (←), the flashing cursor moves to the left.

❸ Repeat steps ❶ and ❷ to enter the entire name.

3 To return to normal CD playback mode, press (LIST) for two seconds.

Tip

To erase/correct a name enter "_" (under-bar) for each character.

Displaying the disc memo name or CD-TEXT name

When you play back a CD-TEXT disc, you can set the priority display item to be the disc memo name or the CD-TEXT name.

1 Press (SHIFT) during CD-TEXT disc playback.

2 Press (2) (SET UP) repeatedly until "Disc MEMO" or "TEXT name" appears.

3 Press (4) (→) to select "Disc MEMO" or "TEXT name."

4 Press (SHIFT).

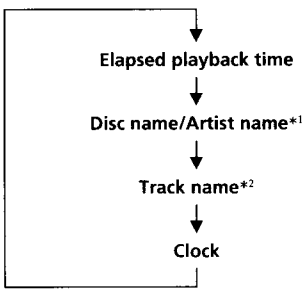
After the mode setting is complete, the display goes back to normal playback mode.

If you want to change to the other setting, you can do so in step 3.

Displaying the disc memo name

Press (DSPL) during CD or CD-TEXT disc playback.

Each time you press (DSPL) during CD or CD-TEXT disc playback, the item changes as follows:



*1 *When you connect an optional CD changer with the CD-TEXT function, the personalized label or the CD-TEXT disc name appears. See below to change the display.*
— To change the displayed item press (4) (→).
— To change the display using display settings ("Displaying the disc memo name or CD-TEXT name").

The display item will change depending on the setting as follows:

Type of disc	Priority display setting	Actual display
A	Disc MEMO	Disc memo
	TEXT name	CD-TEXT information
B	Disc MEMO	Disc memo
	TEXT name	
C	Disc MEMO	CD-TEXT information
	TEXT name	
D	Disc MEMO	NO D.Name
	TEXT name	

A: CD-TEXT disc with disc memo
B: Normal CD with disc memo
C: CD-TEXT disc without disc memo
D: Normal CD without disc memo

*2 *If you connect an optional CD changer with the CD-TEXT function, the CD-TEXT information will appear in the display when you playback a CD-TEXT disc.*

Erasing the disc memo

1 Press (SOURCE) repeatedly to select CD.

2 Press (MODE) repeatedly to select the CD changer.

3 Press (LIST) for two seconds.

4 Press (DSPL) for two seconds.

5 Rotate the dial to select the name you want to erase.

6 Press (5) (ENTER) for two seconds.
The name is erased.
Repeat steps 5 and 6 if you want to erase other names.

7 Press (LIST) for two seconds.
The unit returns to normal CD playback mode.

Locating a disc by name

— List-up (CD changer with the custom file function or MD changer)

You can use this function for discs that have been assigned a custom name. For more information on disc names, refer to "Labeling a CD" (page 22).

1 Press (LIST) momentarily.
The name assigned to the current disc appears in the display.

If you add disc memo labels to a CD-TEXT disc, the display setting you make will determine which information is displayed. If the disc has only one set of information (either CD-TEXT or disc memo labels), that information will be displayed regardless of the display setting you make.

2 Press (LIST) repeatedly until you find the desired disc.

3 Press (5) (ENTER) to play back the disc.

Notes

- *After a disc name has been displayed for five seconds, the display goes back to normal playback mode. To turn off the display, press (DSPL).*
- *The track names are not displayed during MD playback.*
- *If there are no discs in the magazine, "NO Disc" appears in the display.*
- *If a disc has not been assigned a custom file, "********" appears in the display.*
- *If the disc information has not been read by the unit, "?" appears in the display. To load the disc, first press the number button, then choose the disc that has not been loaded.*
- *The information appears only in upper case. There are also some letters which cannot be displayed (during MD playback).*

Selecting specific tracks for playback

— Bank

(CD changer with the custom file function)

If you label the disc, you can set the unit to skip tracks and play only the tracks you want.

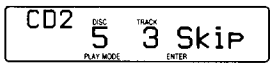
1 Start playing the disc and press (SHIFT). Then press ③ (PLAY MODE) for two seconds.

Bank edit mode.

Note

If you have not labeled the disc, the bank edit mode does not appear and the program edit mode appears. To go back to normal playback mode, press (SHIFT).

2 Press either side of (SEEK/AMS) to select the track number you want to skip and press ⑤ (ENTER).



The indication changes from "Play" to "Skip." If you want to return to "Play," press ⑤ (ENTER) again.

3 Repeat step 2 to set the "Play" or "Skip" mode on all the tracks.

4 Press ③ (PLAY MODE) for two seconds.

The unit returns to normal CD playback mode.

5 Press (SHIFT).

Notes

- *You can set the "Play" and "Skip" mode on up to 24 tracks.*
- *You cannot set the "Skip" mode on all the tracks.*

Playing the specific tracks only

You can select:

- Bank on to play the tracks with the "Play" setting.
- Bank inv (Inverse) to play the tracks with the "Skip" setting.

1 During playback, press (SHIFT), then press ③ (PLAY MODE) repeatedly until "Bank" appears.

2 Press ④ (→) to repeatedly until the desired setting appears.

→ Bank on → Bank inv → Bank off

Playback starts from the track following the current one.

3 Press (SHIFT).

To go back to normal playing mode, select "Bank off" in step 2 above.

EN

TV/Video

With the optional TV tuner and TV monitor connected

Watching the TV

1 Press (SOURCE) repeatedly until "TV" appears.

2 Press either side of (SEEK/AMS) to select the desired TV band.

Watching a video

1 Press (SOURCE) repeatedly until "TV" appears.

2 Press (MODE) repeatedly to select "Video 1."
Play back the video.

Note
"Video 2" appears if the VIDEO 2 terminal of the TV monitor is selected.

Memorizing TV channels automatically

The unit selects the TV channels with the strongest signals and memorizes them in the order of their frequency.

Caution
When tuning in a station while driving, use Best Tuning Memory to prevent accidents.

1 Press (SOURCE) repeatedly until "TV" appears.

2 Press (SHIFT), then press (3) (PLAY MODE) repeatedly until "Auto mem" appears.

3 Press (4) (→).
The unit stores TV channels in the order of their frequencies on the number buttons. A beep sound and the setting is stored.

4 Press (SHIFT).

Notes
- *The unit does not store TV channels with weak signals. If only a few TV channels are received, some number buttons will remain empty.*
- *When a preset number is indicated in the display, the unit starts storing TV channels from the one currently displayed.*

Memorizing only the desired TV channels

You can store up to 10 channels on the number buttons in the order of your choice.

1 Press (SOURCE) repeatedly until "TV" appears.

2 Press either side of (SEEK/AMS) to tune in the TV program you want to store on the number button.

3 Keep the desired number button ((1) to (10)) pressed for two seconds until you hear a beep tone.
The number button indication appears in the display.

Note
If you try to store another program on the same number button, the previously stored program will be erased.

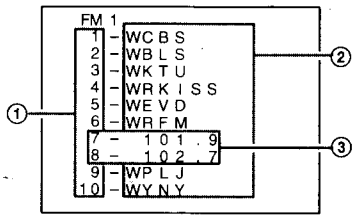
Storing the TV channel names

Follow the steps in "Storing the station names" (page 11).

Displaying the TV or radio station names

Press (LIST) momentarily during TV or radio reception.

Example: When receiving the FM1 band



① Preset number
② Stored station names
③ Frequencies*

* *If the name of a station is not stored, the frequency of that station will be displayed instead.*

Notes

- *It may take some time before all indications appear in the display.*
- *The TV monitor does not appear during list display.*
- *The contents of the preset memory cannot be listed when the unit is in the simultaneous play mode (page 26).*

Turning off the display

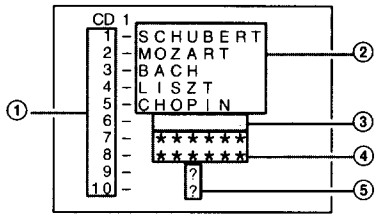
During radio reception, press (LIST) again.

During TV reception, the list display on the TV monitor will automatically turn off after a few seconds.

Displaying the information stored on discs

Press (LIST) momentarily during CD/MD playback.

Example: When CD changer 1 is selected.



① Disc numbers
② Titles stored as custom files
③ No disc is loaded*1
④ No stored titles*2
⑤ TOC information has not been identified yet*3

*1 *A blank space is displayed next to a disc numbers representing empty slots in the disc magazine.*
*2 *If a title is not registered in the custom file, "******" is displayed.*
*3 *If the disc information has not been read yet, "?" is displayed.*

Notes

- *It may take some time until all indications appear in the display.*
- *The TV program does not appear during list display.*
- *The contents of the preset memory cannot be listed when the unit is in the simultaneous play mode.*

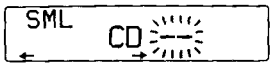
Turning off the display

Press (LIST) again.

Watching the TV or video while listening to a CD or MD — Simultaneous Play

The simultaneous play function does not work while you are listening to the radio.

1 Press (SOURCE) for two seconds.



2 Press ① (←).

3 Press (SOURCE) repeatedly to select a CD or MD.

4 Press ④ (→).

5 Press (SOURCE) repeatedly to select a TV or video.

6 Press (SOURCE) for two seconds.
Simultaneous Play starts.

Returning to normal mode

To cancel the CD or MD, follow the steps above and select "– –" in step 3.

To cancel the TV or video, follow the steps above and select "– –" in step 5.

Notes

If you press the EJECT button on a CD/MD changer while the unit is in simultaneous play mode, Simultaneous Play is canceled.

Additional Information

Precautions

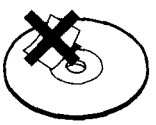
- If your car was parked in direct sunlight resulting in a considerable rise in temperature inside the car, allow the unit to cool off before operating it.
- If no power is being supplied to the unit, check the connections first. If everything is in order, check the fuse.
- If no sound comes from the speakers of two-speaker systems, set the fader control to the center position.
- If your car is equipped with a power aerial, it will extend automatically while the unit is operating.

If you have any questions or problems concerning your unit that are not covered in this manual, please consult your nearest Sony dealer.

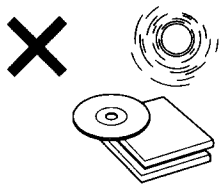
Notes on handling CDs

A dirty or defective disc may cause sound dropouts while playing. To enjoy optimum sound, handle the disc as follows.
Handle the disc by its edge. To keep the disc clean, do not touch the surface.

Do not stick paper or tape on the labelled surface.



Do not expose the discs to direct sunlight or heat sources such as hot air-ducts, or leave them in a car parked in direct sunlight where there can be a considerable rise in the temperature inside the car.



Before playing, clean the discs with an optional cleaning cloth. Wipe each disc from the center out.
Do not use solvents such as benzine, thinner, commercially available cleaners or antistatic spray intended for analog discs.

EN

Notes on moisture condensation

On a rainy day or in a very damp area, moisture may condense on the lenses inside the CD player. Should this occur, the unit will not operate properly. In this case, remove the disc and wait for about an hour until the moisture evaporates.

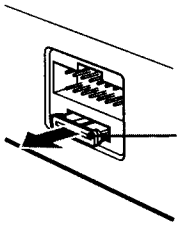
When you play 8 cm (3 in.) CDs

Use the optional Sony compact disc single adapter (CSA-8) to protect the CD player from being damaged.

Maintenance

Fuse replacement

When replacing the fuse, be sure to use one that matches the amperage described on the fuse. If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction. In such a case, consult your nearest Sony dealer.

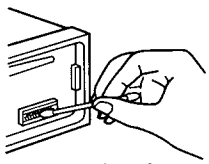


Warning

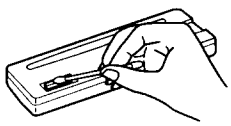
Never use a fuse with an amperage rating exceeding the one supplied with the unit as this could damage the unit.

Cleaning the connectors

The unit may not function properly if the connectors between the unit and the front panel are not clean. To prevent this, open the front panel by pressing (RELEASE), then detach it and clean the connectors with a cotton swab dipped in alcohol. Do not apply too much force. Otherwise, the connectors may be damaged.

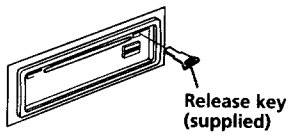


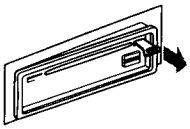
Main unit

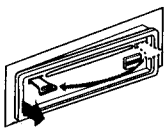


Back of the front panel

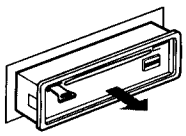
Dismounting the unit



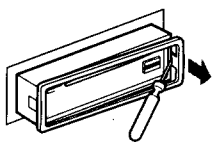




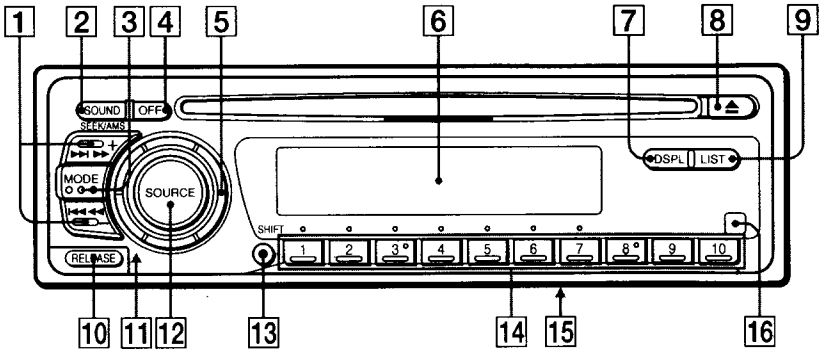
Pull the unit out while the release key is inserted.



Press the clip inside the front cover with a thin screwdriver, and lever the front cover free.



Location of controls



EN

Refer to the pages for details.

1 **SEEK/AMS (seek/Automatic Music Sensor/manual search) button 6, 7, 8, 10, 18, 19, 20, 21, 24, 25**

2 **SOUND button 12, 13, 14, 15, 17**

3 **MODE (band/changer select) button 9, 10, 18, 20, 23, 25**

4 **OFF button 4, 5**

5 **Dial (volume/surround menu/listening position/sub woofer volume/bass/treble/balance/fader control) 5, 11, 12, 13, 14, 15, 22**

6 **Display window**

7 **DSPL (display mode change) button 5, 6, 10, 11, 18, 22, 23**

8 **⏏ (eject) button 5**

9 **LIST button**

Disc Memo **22, 23**

List-up **11, 23**

Station memo **11, 26**

10 **RELEASE (front panel release) button 4, 28**

11 **Reset button (located on the front side of the unit behind by the front panel) 4**

12 **SOURCE (source select) button 5, 6, 9, 10, 12, 14, 18, 20, 23, 25, 27**

13 **SHIFT button**

PLAY MODE **6, 7, 8, 9, 10, 12, 19, 20, 21, 24, 25**

REP **7, 19**

SET UP **5, 6, 17, 18, 22**

SHUF **7, 19**

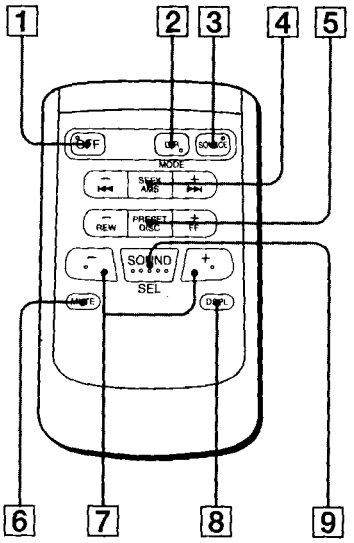
14 **During radio/TV reception: Number buttons 10, 25**

During CD/MD playback: Direct disc selection buttons 19

15 **POWER SELECT switch (located on the bottom of the unit)**
See "POWER SELECT Switch" in the Installation/Connections manual.

16 **Receptor for the optional wireless remote**

Optional wireless remote (RM-X41)



The buttons of the wireless remote work the same functions as those on this unit.

1 **OFF button**

2 **MODE/DIR button**
Functions as (MODE) on this unit.

3 **SOURCE button**

4 **SEEK/AMS button**

5 **PRESET/DISC button**
You cannot do manual search and manual tuning with the remote.

6 **MUTE button**

7 ⊖ ⊕ **buttons**

8 **DSPL button**

9 **SOUND button**

When the POWER SELECT switch is set to the ❽ position, the unit cannot be operated with the wireless remote unless (SOURCE) on the unit is pressed or a CD is inserted to activate the unit first.

Specifications

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION
15 watts per channel minimum continuous average power into 4 ohms, 4 channels driven from 20 Hz to 20 kHz with no more than 1 % total harmonic distortion.

Other specifications

CD player section

System	Compact disc digital audio system
Signal-to-noise ratio	93 dB
Frequency response	10 – 20,000 Hz
Wow and flutter	Below measurable limit
Laser Diode Properties	
Material	GaAlAs
Wavelength	780 nm
Emission Duration	Continuous
Laser output power	Less than 44.6 µW*

* *This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.*

Tuner section

FM

Tuning range	87.5 – 107.9 MHz
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz
Usable sensitivity	10 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	62 dB (stereo), 65 dB (mono)
Harmonic distortion at 1 kHz	0.9 % (stereo), 0.5 % (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz
Capture ratio	2 dB

AM

Tuning range	530 – 1,710 kHz
Antenna terminal	External antenna connector
Intermediate frequency	10.71 MHz/450 kHz
Sensitivity	30 µV

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	40 W × 4 (at 4 ohms)

General

Outputs	Line outputs (2) Sub output Power antenna relay control lead Power amplifier control lead
Tone controls	Bass ±10 dB at 100 Hz Treble ±10 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 188 × 58 × 177 mm ($7\ ^1/_2 \times 2\ ^3/_8 \times 7$ in.) (w/h/d)
Mounting dimensions	Approx. 178 × 50 × 154 mm ($7\ ^1/_8 \times 2 \times 6\ ^1/_8$ in.) (w/h/d)
Mass	Approx. 1.5 kg (3 lb. 4.9 oz.)
Supplied accessories	Rotary remote (1) Parts for installation and connections (1 set) Front panel case (1)
Optional accessories	Wireless remote RM-X41 BUS cable (supplied with an RCA pin cord) RC-61 (1 m), RC-62 (2 m) RCA pin cord RC-63 (1 m), RC-64 (2 m), RC-65 (5 m) Cleaning cloth XP-CD1 Compact disc single adapter CSA-8
Optional equipment	CD changer CDX-805 (10 discs), CDX-705 (10 discs), CDX-T65 (6 discs), CDX-T62 (6 discs) MD changer MDX-60, MDX-61 Source selector XA-C30 TV tuner XT-40V, etc.

Design and specifications are subject to change without notice.

EN

Troubleshooting guide

The following checklist will help you remedy the problems you may encounter with your unit. Before going through the checklist below, check the connection and operating procedures.

General

Problem	Cause/Solution
No sound.	• Cancel the MUTE function. • Set the fader control to the center position for two-speaker systems. • Rotate the dial in a clockwise direction to adjust the volume.
The contents of the memory have been erased.	• The power cord or battery has been disconnected. • The reset button has been pressed. → Store again into the memory.
Indications do not appear in the display.	Remove the front panel and clean the connectors. See "Cleaning the connectors" (page 28) for details.

CD/MD playback

Problem	Cause/Solution
A disc cannot be loaded.	• Another CD is already loaded. • The CD is forcibly inserted upside down or in the wrong way (MD).
Playback does not begin.	Defective MD or dusty CD.
A disc is automatically ejected.	The ambient temperature exceeds 50 °C (122 °F).
The operation buttons do not function.	Press the reset button.
The sound skips due to vibration.	• The unit is installed at an angle of more than 20°. • The unit is not installed in a sturdy part of the car.

Radio reception

Problem	Cause/Solution
Preset tuning is not possible.	• Memorize the correct frequency. • The broadcast signal is too weak.
Automatic tuning is not possible.	The broadcast signal is too weak. → Use manual tuning.
The "ST" indication flashes.	• Tune in the frequency accurately. • The broadcast signal is too weak. → Set to the MONO mode (page 10).

DSP functions

Problem	Cause/Solution
No sound, or sound is too low.	The volume of the rear speakers may have been automatically lowered in order to maximize the effect of the listening position adjustment. → Rotate the dial in a clockwise direction to adjust the balance. The speaker balance can be set separately for DSP on mode and DSP off mode (page 13).

Error displays (when an optional CD/MD changer is connected)

The following indications will flash for about five seconds, and an alarm sound will be heard.

Display	Cause	Solution
NO Mag	The disc magazine is not inserted in the CD/MD changer.	Insert the disc magazine in the CD/MD changer.
NO Disc	No disc is inserted in the CD/MD changer.	Insert discs in the CD/MD changer.
NG Discs	A CD/MD cannot play because of some problem.	Insert another CD/MD.
Error*1	A CD is dirty or inserted upside down.*2	Clean or insert the CD correctly.
	An MD does not play because of some problem.*2	Insert another MD.
Blank*1	No tracks have been recorded on an MD.*2	Play an MD with tracks recorded on it.
PushReset	The CD/MD changer cannot be operated because of some problem.	Press the reset button of the unit.
Not Ready	The lid of the MD changer is open or MDs are not inserted properly.	Close the lid or insert the MDs properly.
HighTemp	The ambient temperature is more than 50 °C (122 °F).	Wait until the temperature goes down below 50 °C (122 °F).

*1 *When an error occurs during playback of an MD or CD, the disc number of the MD or CD dose not appear in the display.*

*2 *The disc number of the disc causing the error appears in the display.*

If the above-mentioned solutions do not help improve the situation, consult your nearest Sony dealer.

EN

Index

A

Automatic Music Sensor (AMS) 6, 18
Automatic tuning 10
Auto Scroll 6, 18

B

Balance 17
Bass 14, 17
Bank Play 24
Beep tone 17
Best Tuning Memory (BTM) 9

C

Caution alarm 4
CD playback 5, 18
CD program memory 7
CD-TEXT 18, 22
Clock 5

D

Digital Signal Processor (DSP) 12
Digital tone control 14
Dimmer 17
Direct disc selection 19
Disc Memo 22
Disc Sound Memory (DSM) 12
Display 5, 10, 11, 18, 22
Dual information 17

E

Effect 12

F, G, H

Fader 13, 17
Front panel 4
Fuse 28

I, J, K

Illumination color 17
Intro Scan 6, 19

L

List-up 11, 23
Listening position 13
Local seek 10
Locating
  a disc 19, 23
  a specific point 6, 19
  a specific track 6, 18
Loudness 17

M, N, O

Manual search 6, 19
Manual tuning 10
MD playback 18
Memorizing a station 10
Memorizing a TV channel 25
Monaural mode 10
Mute 17

P, Q

PLAY MODE
  Bank 24
  Intro 6, 19
  Local 10
  Mono 10
  PGM 8, 20
Program memory 20

R

Radio 9
Repeat Play 7, 19
Reset 4
Rotary remote 4, 15, 17

S

SET UP
  Amber 17
  A.Scrl 17
  Beep 17
  Clock 5
  Dimmer 17
  D.Info 17
  Disc MEMO 22
  Green 17
  Loud 17
  RM 17
  TEXT name 22
Shuffle Play 7, 19
Simultaneous Play 27
Source Sound Memory (SSM) 15
Station Memo 11
Subwoofer 14
Surround 12, 17

T, U

Treble 14, 17
TV 25

V

Video 25
Volume 17

W, X, Y, Z

Wireless remote 31